

Application No.: 09/518,117

Docket No.: JCLA5710

REMARKS

Present Status of the Application

The Office Action rejected all presently-pending claims 1-5. Specifically, the Office Action rejected claims 1-5 under 35 U.S.C. 103(a), as being unpatentable over Koshiyou et al. (U. S. Patent 5,150,227) in view of Kmiyama (U. S. Patent 5,381,244). Claims 1-5 remain pending in the present application, and reconsideration of those claims is respectfully requested.

Discussion of Office Action Rejections

The Office Action rejected claims 1-5 under 35 U.S.C. 103(a), as being unpatentable over Koshiyou et al. in view of Kmiyama. Applicants respectfully traverse the rejections for at least the reasons set for the below.

The present invention as shown in FIG. 2 proposes that the period T2 of the motor pulse (MTP) is a plurality of the periods T1 of the shift gate clock (SH), so that a higher resolution can still be achieved. The features are recited in independent claims 1 and 3 as follows:

1. A method of increasing scanning resolution of a scanner through controlling its driving system, comprising the steps of:
providing shift gate clock pulses to a charge-coupled device such that one shift gate clock pulse period corresponds to an exposure cycle for the charge-coupled device; and
providing motor pulses to a motor such that one motor pulse period corresponds to a plurality of exposure cycles for the charge-coupled device. (Emphasis added)

3. A method of increasing scanning resolution of a scanner through controlling its driving system, comprising the steps of:

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*providing motor pulse signals to a driving motor of the scanner;
providing shift gate clock pulse signals to a charge-coupled device of the scanner; and
adjusting a timing relationship between the motor pulse and the shift gate clock pulse
such that one motor pulse cycle corresponds to a plurality of shift gate clock pulse cycles.
(Emphasis added)*

The features emphasized in claims 1 and 3 are at least not disclosed by the prior art references.

In re Koshiyouji et al., as noted by the Office action, Koshiyouji et al. do not disclose *one motor pulse period corresponds to a plurality of exposure cycles for the charge-coupled-device*. The Office Action then cites Kamiyama in combination to supply the missing features in Koshiyouji et al.. However, Applicants respectfully disagree.

In re Kamiyama (Fig. 4B), clearly, the period of the motor pulse is smaller than the scanning period $t_1, t_2 \dots$ etc. This design is contrary to the present invention (see FIG. 2).

Therefore, Kamiyama failed to supply the missing features in Koshiyouji et al. about at least the features of *"one motor pulse period corresponds to a plurality of exposure cycles for the charge-coupled-device"* in the present invention.

For at least the foregoing reasons, Applicant respectfully submits that independent claims 1 and 3 patently define over the prior art, and should be allowed. For at least the same reasons, dependent claims 2 and 4-5 patently define over the prior art as well.

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CONCLUSION

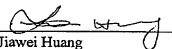
For at least the foregoing reasons, it is believed that all pending claims 1-5 are in proper condition for allowance. If the Examiner believes that a telephone conference would expedite the examination of the above-identified patent application, the Examiner is invited to call the undersigned.

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